

**Spirit Mountain Powerplant
Other**

Ancillary Services

**Spirit Mountain
Ancillary Services**

Spinning Reserve	No
Non-Spinning Reserve	No
Replacement Reserve	No
Regulation/Load Following	No
Black Start	No
Voltage Support	No

Generators

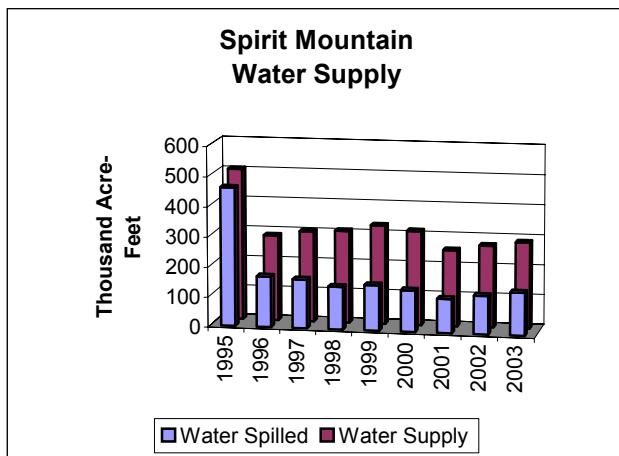
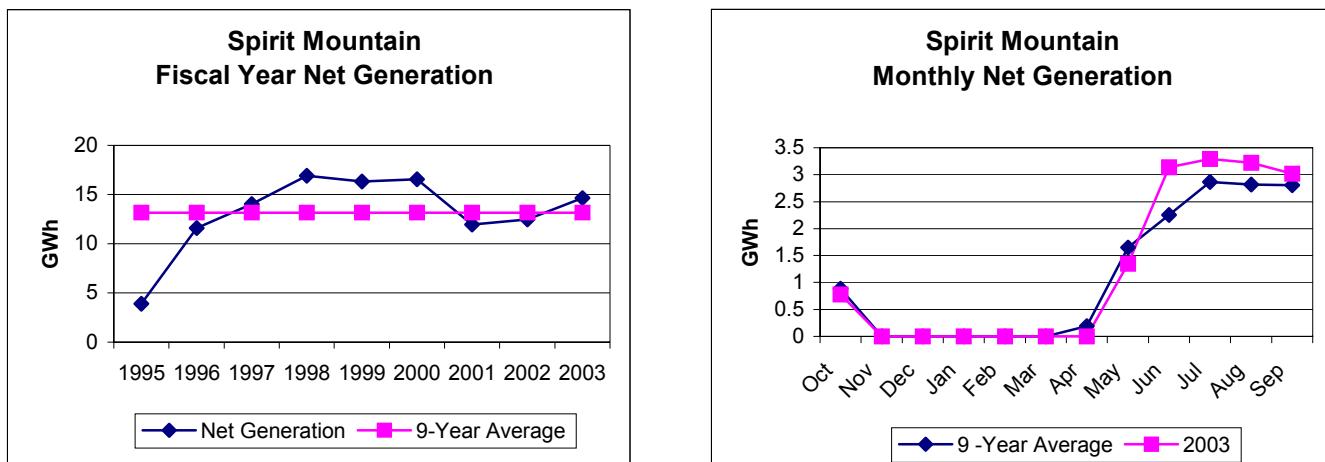
Spirit Mountain Generators

Existing Number and Capacity

Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	4,500	0	4,500
1 Unit	4,500	0	4,500

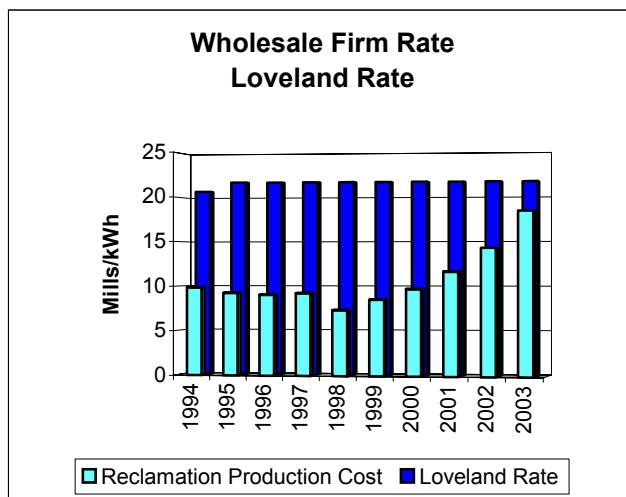
**Spirit Mountain Powerplant
Other**

Generation

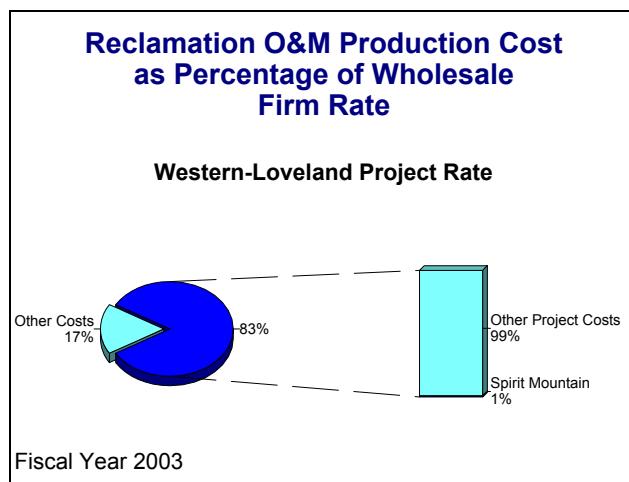


Prime Laboratory Benchmarks

Benchmark 1 Wholesale Firm Rate

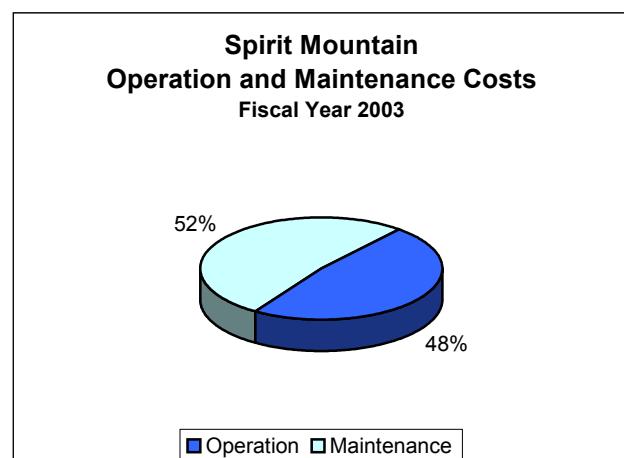
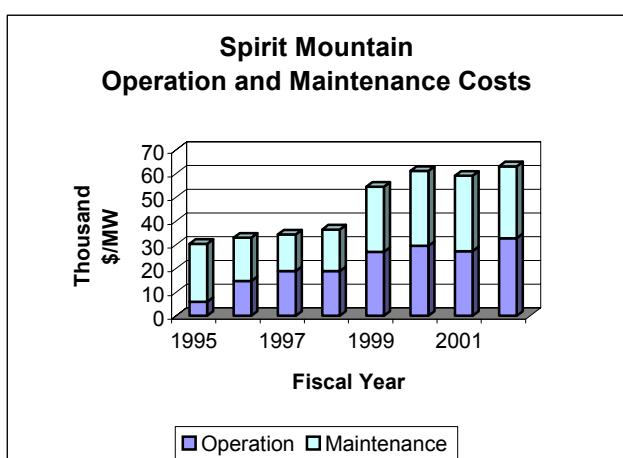
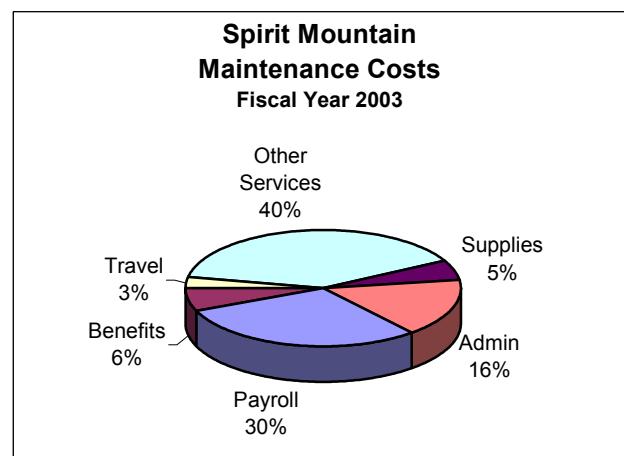
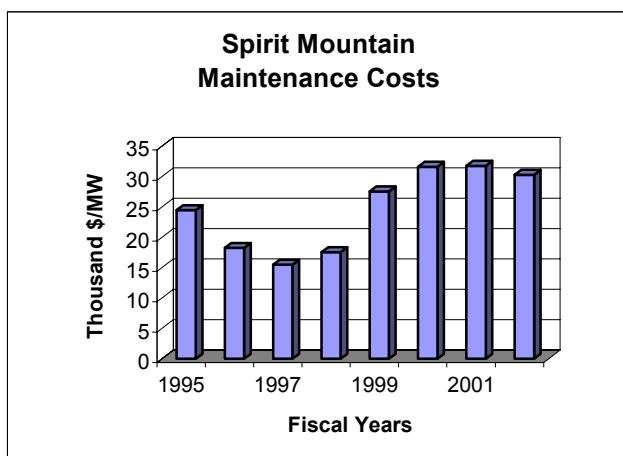
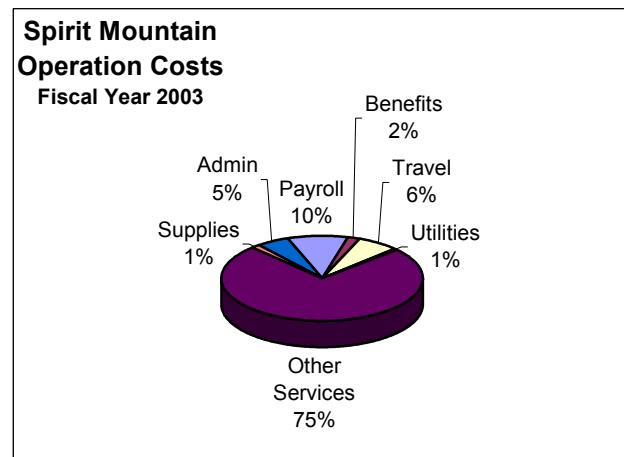
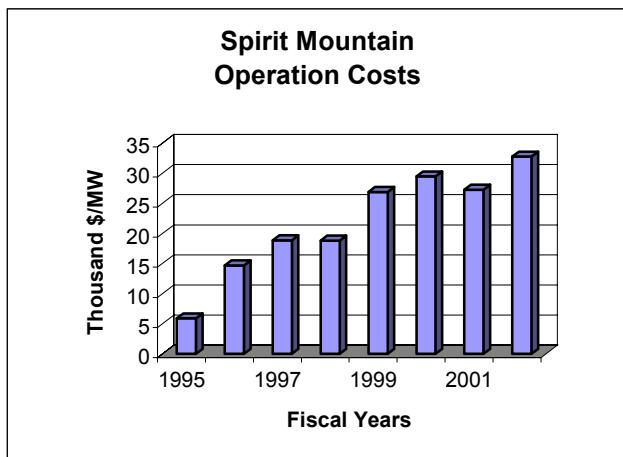


Benchmark 2 Reclamation's Production Cost as Percentage of Wholesale Firm Rate



**Spirit Mountain Powerplant
Other**

**Benchmark 3
Production Cost**



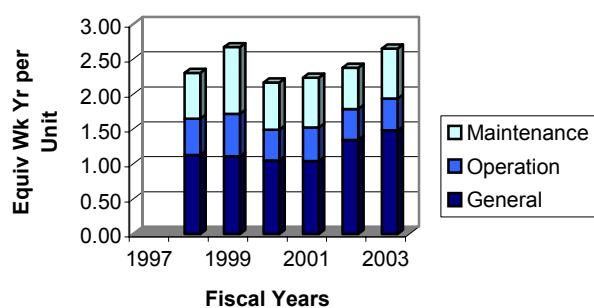
**Spirit Mountain Powerplant
Other**

**Benchmark 4
Workforce Deployment**

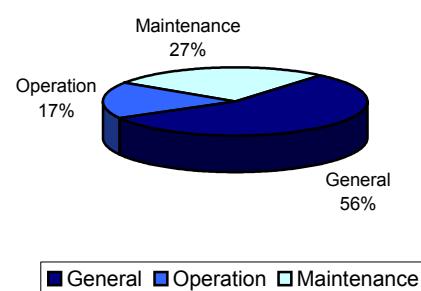
**Spirit Mountain
2003 Equivalent
Work Year Levels**

	Equiv Work Year Charged to Powerplant	Leave Additive	Denver and Washington Equiv Work Year Additive	Total Equiv Work Year Allocated to Powerplant	Total Equiv Work year per Generating Unit	Total Equiv Work Year per Megawatt
General	1.31	0.14	0.02	1.48	1.48	0.33
Operation	0.41	0.04	0	0.46	0.46	0.10
Maintenance	0.65	0.07	0	0.72	0.72	0.16
Total Staffing	2.37	0.25	0.02	2.65	2.65	0.59

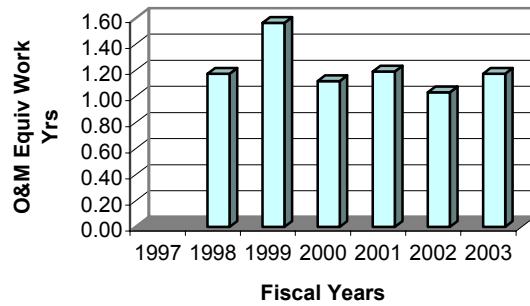
**Spirit Mountain
Equivalent Work Year per Unit**



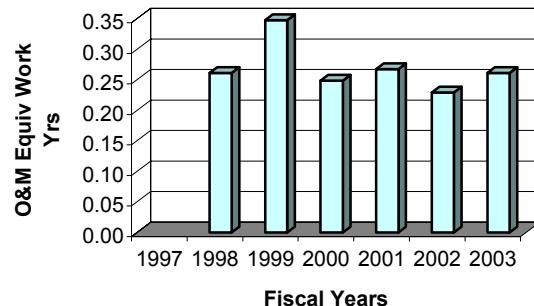
**Spirit Mountain
Equivalent Work Year per Unit
2003**



**Spirit Mountain
O&M Equivalent Work Years per Unit**



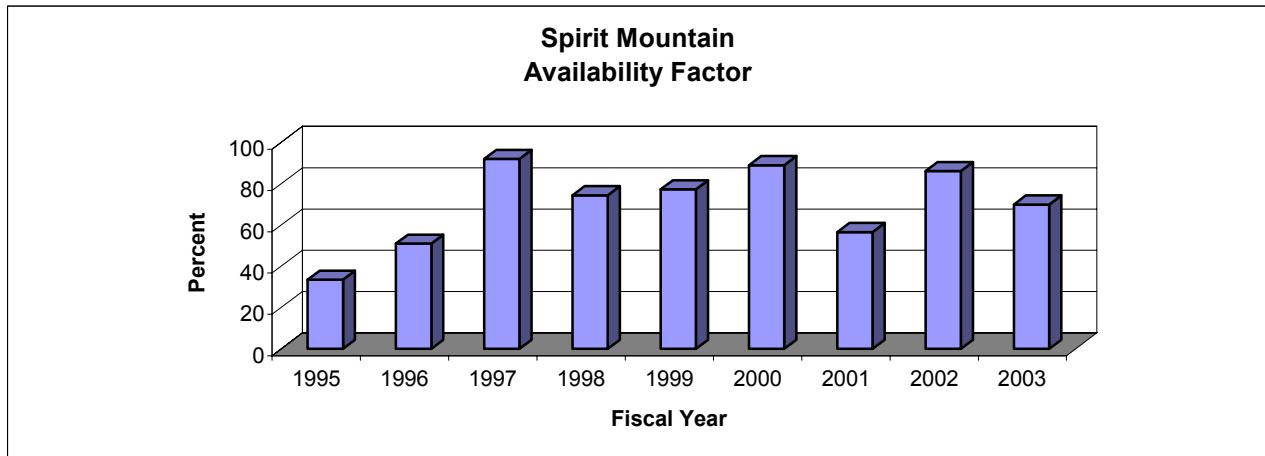
**Spirit Mountain
O&M Equivalent Work Years per MW**



Distributive Accounts not available for FY-97

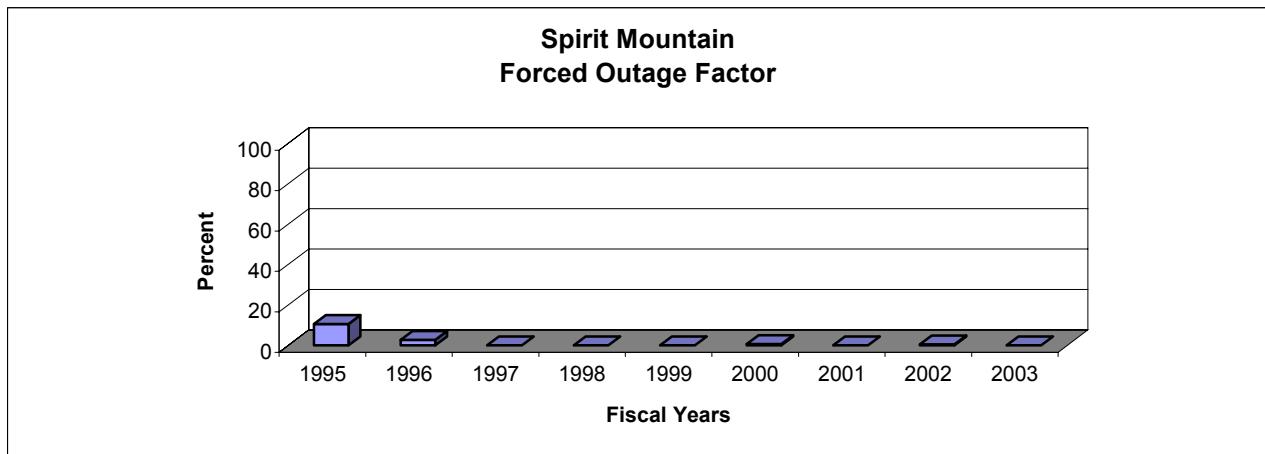
**Spirit Mountain Powerplant
Other**

**Benchmark 5
Availability Factor**



FY-01-Extended outages due to coating repairs in the Buffalo Bill penstock and to the sleeve valves.

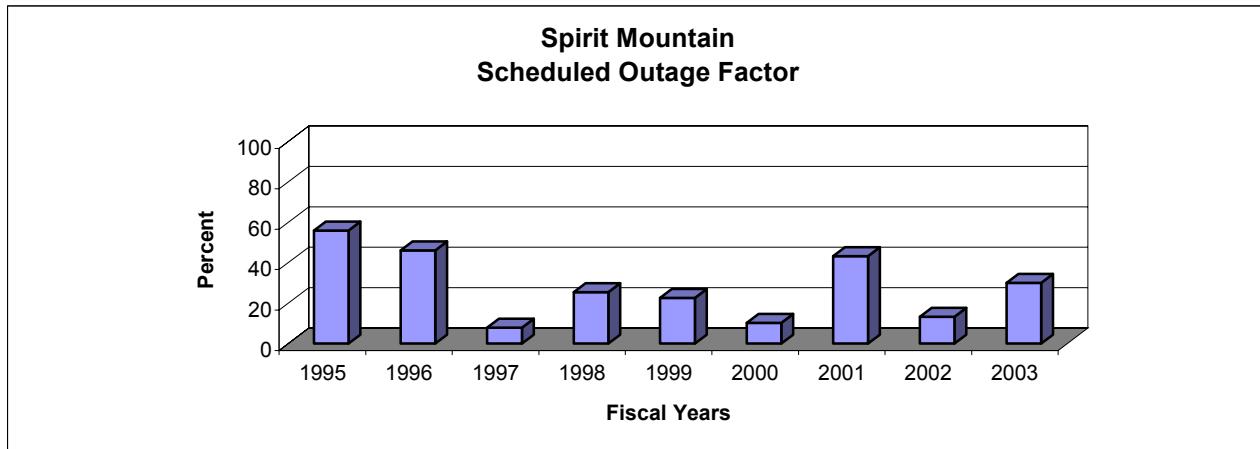
**Benchmark 6
Forced Outage Factor**



FY-95 - Contractor problems with brakes on new unit

**Spirit Mountain Powerplant
Other**

**Benchmark 7
Scheduled Outage Factor**

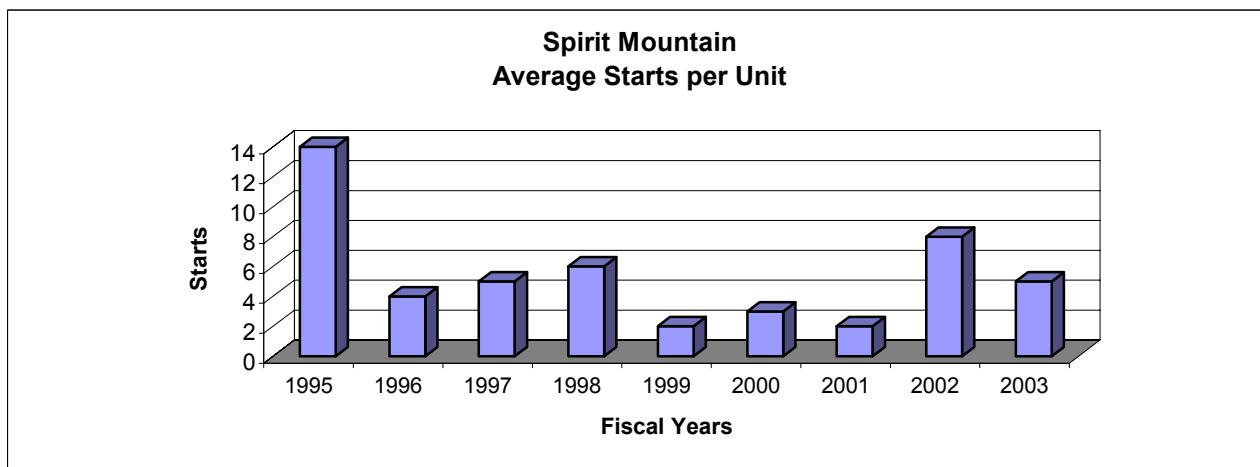


FY-95 and FY-96 – Contractor problems with new unit

FY-01 – Extended outages due to coating repairs in the Buffalo Bill penstock and to the sleeve valves.

FY 03 – Extensive packing box repairs and replacement of failed and disconnected switch.

Starts



Benchmark Data Comparison

Fiscal Year 2003	Spirit Mountain Powerplant	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	21.7	*23.1	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	0.8%	12.0%	Not Applicable	Not Applicable
O&M Cost \$/MWh	18.3	2.7	Not Applicable	1.1
O&M Costs \$/MW	59,338	7,315	Not Applicable	3,108
O&M Equiv Work Year per MW	0.3	0.04	Not Available	0.01
Availability Factor	86.1	83.6	**88.9	99.1
Forced Outage Factor	0.5	1.5	**2.4	0.0
Scheduled Outage Factor	13.4	14.9	**8.7	0.0

*Weighted by Net Generation

**2002 NERC Average